



SEQUENCE LISTING

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ChemoCentryx, Inc.

<120> Chemokine Receptor

<130> 019934-0007210US

<140> US 09/721,495

<141> 2000-11-21

<150> US 60/159,015

<151> 1999-10-12

<150> US 60/159,210

<151> 1999-10-13

<150> US 60/172,979

<151> 1999-12-20

<150> US 60/173,388

<151> 1999-12-28

<150> US 60/186,626

<151> 2000-03-03

<150> US 09/686,019

<151> 2000-10-10

<160> 14

<170> PatentIn Ver. 2.1

<210> 1

<211> 1147

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(1053)

<220>

<223> chemokine receptor CCX CKR

<400> 1

atg gct ttg gaa cag aac cag tca aca gat tat tat tat gag gaa aat 48
Met Ala Leu Glu Gln Asn Gln Ser Thr Asp Tyr Tyr Tyr Glu Glu Asn
1 5 10 15

gaa atg aat ggc act tat gac tac agt caa tat gaa ctg atc tgt atc 96
Glu Met Asn Gly Thr Tyr Asp Tyr Ser Gln Tyr Glu Leu Ile Cys Ile
20 25 30

aaa gaa gat gtc aga gaa ttt gca aaa gtt ttc ctc cct gta ttc ctc	144
Lys Glu Asp Val Arg Glu Phe Ala Lys Val Phe Leu Pro Val Phe Leu	
35 40 45	
aca ata gtt ttc gtc att gga ctt gca ggc aat tcc atg gta gtg gca	192
Thr Ile Val Phe Val Ile Gly Leu Ala Gly Asn Ser Met Val Val Ala	
50 55 60	
att tat gcc tat tac aag aaa cag aga acc aaa aca gat gtg tac atc	240
Ile Tyr Ala Tyr Tyr Lys Lys Gln Arg Thr Lys Thr Asp Val Tyr Ile	
65 70 75 80	
ctg aat ttg gct gta gca gat tta ctc ctt cta ttc act ctg cct ttt	288
Leu Asn Leu Ala Val Ala Asp Leu Leu Leu Leu Phe Thr Leu Pro Phe	
85 90 95	
tgg gct gtt aat gca gtt cat ggg tgg gtt tta ggg aaa ata atg tgc	336
Trp Ala Val Asn Ala Val His Gly Trp Val Leu Gly Lys Ile Met Cys	
100 105 110	
aaa ata act tca gcc ttg tac aca cta aac ttt gtc tct gga atg cag	384
Lys Ile Thr Ser Ala Leu Tyr Thr Leu Asn Phe Val Ser Gly Met Gln	
115 120 125	
ttt ctg gct tgt atc agc ata gac aga tat gtg gca gta act aaa gtc	432
Phe Leu Ala Cys Ile Ser Ile Asp Arg Tyr Val Ala Val Thr Lys Val	
130 135 140	
ccc agc caa tca gga gtg gga aaa cca tgc tgg atc atc tgt ttc tgt	480
Pro Ser Gln Ser Gly Val Gly Lys Pro Cys Trp Ile Ile Cys Phe Cys	
145 150 155 160	
gtc tgg atg gct gcc atc ttg ctg agc ata ccc cag ctg gtt ttt tat	528
Val Trp Met Ala Ala Ile Leu Leu Ser Ile Pro Gln Leu Val Phe Tyr	
165 170 175	
aca gta aat gac aat gct agg tgc att ccc att ttc ccc cgc tac cta	576
Thr Val Asn Asp Asn Ala Arg Cys Ile Pro Ile Phe Pro Arg Tyr Leu	
180 185 190	
gga aca tca atg aaa gca ttg att caa atg cta gag atc tgc att gga	624
Gly Thr Ser Met Lys Ala Leu Ile Gln Met Leu Glu Ile Cys Ile Gly	
195 200 205	
ttt gta gta ccc ttt ctt att atg ggg gtg tgc tac ttt atc aca gca	672
Phe Val Val Pro Phe Leu Ile Met Gly Val Cys Tyr Phe Ile Thr Ala	
210 215 220	
agg aca ctc atg aag atg cca aac att aaa ata tct cga ccc cta aaa	720
Arg Thr Leu Met Lys Met Pro Asn Ile Lys Ile Ser Arg Pro Leu Lys	
225 230 235 240	
gtt ctg ctc aca gtc gtt ata gtt ttc att gtc act caa ctg cct tat	768
Val Leu Leu Thr Val Val Ile Val Phe Ile Val Thr Gln Leu Pro Tyr	
245 250 255	
aac att gtc aag ttc tgc cga gcc ata gac atc atc tac tcc ctg atc	816
Asn Ile Val Lys Phe Cys Arg Ala Ile Asp Ile Ile Tyr Ser Leu Ile	
260 265 270	

acc agc tgc aac atg agc aaa cgc atg gac atc gcc atc caa gtc aca 864
 Thr Ser Cys Asn Met Ser Lys Arg Met Asp Ile Ala Ile Gln Val Thr
 275 280 285

gaa agc atc gca ctc ttt cac agc tgc ctc aac cca atc ctt tat gtt 912
 Glu Ser Ile Ala Leu Phe His Ser Cys Leu Asn Pro Ile Leu Tyr Val
 290 295 300

ttt atg gga gca tct ttc aaa aac tac gtt atg aaa gtg gcc aag aaa 960
 Phe Met Gly Ala Ser Phe Lys Asn Tyr Val Met Lys Val Ala Lys Lys
 305 310 315 320

tat ggg tcc tgg aga aga cag aga caa agt gtg gag gag ttt cct ttt 1008
 Tyr Gly Ser Trp Arg Arg Gln Arg Gln Ser Val Glu Glu Phe Pro Phe
 325 330 335

gat tct gag ggt cct aca gag cca acc agt act ttt agc att taa 1053
 Asp Ser Glu Gly Pro Thr Glu Pro Thr Ser Thr Phe Ser Ile
 340 345 350

aggtaaaact gctctgcctt ttgcttggat acatatgaat gatgctttcc cctcaaataa 1113

aacatctgcc ttattctgaa aaaaaaaaaa aaam 1147

<210> 2
 <211> 350
 <212> PRT
 <213> Homo sapiens
 <223> chemokine receptor CCX CKR

<400> 2
 Met Ala Leu Glu Gln Asn Gln Ser Thr Asp Tyr Tyr Tyr Glu Glu Asn
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 Glu Met Asn Gly Thr Tyr Asp Tyr Ser Gln Tyr Glu Leu Ile Cys Ile
 20 25 30
 Lys Glu Asp Val Arg Glu Phe Ala Lys Val Phe Leu Pro Val Phe Leu
 35 40 45
 Thr Ile Val Phe Val Ile Gly Leu Ala Gly Asn Ser Met Val Val Ala
 50 55 60
 Ile Tyr Ala Tyr Tyr Lys Lys Gln Arg Thr Lys Thr Asp Val Tyr Ile
 65 70 75 80
 Leu Asn Leu Ala Val Ala Asp Leu Leu Leu Leu Phe Thr Leu Pro Phe
 85 90 95
 Trp Ala Val Asn Ala Val His Gly Trp Val Leu Gly Lys Ile Met Cys
 100 105 110
 Lys Ile Thr Ser Ala Leu Tyr Thr Leu Asn Phe Val Ser Gly Met Gln
 115 120 125
 Phe Leu Ala Cys Ile Ser Ile Asp Arg Tyr Val Ala Val Thr Lys Val
 130 135 140
 Pro Ser Gln Ser Gly Val Gly Lys Pro Cys Trp Ile Ile Cys Phe Cys
 145 150 155 160
 Val Trp Met Ala Ala Ile Leu Leu Ser Ile Pro Gln Leu Val Phe Tyr
 165 170 175
 Thr Val Asn Asp Asn Ala Arg Cys Ile Pro Ile Phe Pro Arg Tyr Leu
 180 185 190
 Gly Thr Ser Met Lys Ala Leu Ile Gln Met Leu Glu Ile Cys Ile Gly
 195 200 205
 Phe Val Val Pro Phe Leu Ile Met Gly Val Cys Tyr Phe Ile Thr Ala
 210 215 220

Arg	Thr	Leu	Met	Lys	Met	Pro	Asn	Ile	Lys	Ile	Ser	Arg	Pro	Leu	Lys
225					230					235					240
Val	Leu	Leu	Thr	Val	Val	Ile	Val	Phe	Ile	Val	Thr	Gln	Leu	Pro	Tyr
			245						250					255	
Asn	Ile	Val	Lys	Phe	Cys	Arg	Ala	Ile	Asp	Ile	Ile	Tyr	Ser	Leu	Ile
		260						265					270		
Thr	Ser	Cys	Asn	Met	Ser	Lys	Arg	Met	Asp	Ile	Ala	Ile	Gln	Val	Thr
	275						280				285				
Glu	Ser	Ile	Ala	Leu	Phe	His	Ser	Cys	Leu	Asn	Pro	Ile	Leu	Tyr	Val
290						295					300				
Phe	Met	Gly	Ala	Ser	Phe	Lys	Asn	Tyr	Val	Met	Lys	Val	Ala	Lys	Lys
305					310					315				320	
Tyr	Gly	Ser	Trp	Arg	Arg	Gln	Arg	Gln	Ser	Val	Glu	Glu	Phe	Pro	Phe
			325					330						335	
Asp	Ser	Glu	Gly	Pro	Thr	Glu	Pro	Thr	Ser	Thr	Phe	Ser	Ile		
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<210> 3
 <211> 1147
 <212> DNA
 <213> Homo sapiens

<220>
 <223> chemokine receptor CCX CKR (variant)

<400> 3
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 actgatgact acagtcagta tgaactgatc tgtatcaaag aagatgtcag agaatttgcc 120
 aaagttttcc cccctgtatt cctcacaata gttttcgctc ttggacttgc aggcaattcc 180
 atggtagtgg caatttatgc ctattacaag aaacagagaa ccaaaacaga tgtgtacatc 240
 ctgaatttgg ctgtaccaga tttactcctt ctattcactc tgcctttttg ggctgttaat 300
 gcagttcatg ggtgggtttt agggaaaata atgtgcaaaa taacttcagc cttgtacaca 360
 ctaaaactttg tctctggaat gcagtttctg gcttgatatca gcatagacag atatgtggca 420
 gtaactaaag tccccagcca atcaggagtg ggaaaaccat gctggatcat ctgtttctgt 480
 gtctggatgg ctgccatctt gctgagcata ccccgactgg ttttttatac agtaaatgac 540
 aatgttaggt gcattcccat tttccccgcg aacttaggaa catcaatgaa agcattgatt 600
 caaatgctag agatctgcat tggatttgta gtaccctttc ttattatggg ggtgtgctac 660
 tttatcacag caaggacact catgaagatg ccaaacatta aaatatctcg acccctaaaa 720
 gttctgctca cagtcgttat agttttcatt gtcactcaac tgccttataa cattgtcaag 780
 ttctgccgag ccatagacat catctactcc ctgatcacca gctgcaacat gagcaaacgc 840
 atggacatcg ccattccaagt cacagaaagc atcgcaactc ttcacagctg cctcaaccga 900
 atcctttatg tttttatggg agcatctttc aaaaactacg ttatgaaagt ggccaagaaa 960
 tatgggtcct ggagaagaca gagacaaagt gtggaggagt ttccttttga ttctgagggt 1020
 cctacagagc caaccagtac ttttagcatt taaaggtaaa actgctctgc cttttgcttg 1080
 gatacatatg aatgatgctt tcccccaaa taaaacatct gccttattct gaaaaaaaaa 1140
 aaaaaaam 1147

<210> 4
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:primer

<400> 4
 aatttggtctg tagcagattt actcc

25

<210> 5
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:primer

<400> 5
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<210> 6
<211> 369
<212> PRT
<213> Homo sapiens

<220>
<223> chemokine receptor CCR9

<400> 6
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Tyr Gly Ser Glu Ser Thr Ser Ser Met Glu Asp Tyr Val Asn Phe Asn
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Phe Thr Asp Phe Tyr Cys Glu Lys Asn Asn Val Arg Gln Phe Ala Ser
35 40 45
His Phe Leu Pro Pro Leu Tyr Trp Leu Val Phe Ile Val Gly Ala Leu
50 55 60
Gly Asn Ser Leu Val Ile Leu Val Tyr Trp Tyr Cys Thr Arg Val Lys
65 70 75 80
Thr Met Thr Asp Met Phe Leu Leu Asn Leu Ala Ile Ala Asp Leu Leu
85 90 95
Phe Leu Val Thr Leu Pro Phe Trp Ala Ile Ala Ala Ala Asp Gln Trp
100 105 110
Lys Phe Gln Thr Phe Met Cys Lys Val Val Asn Ser Met Tyr Lys Met
115 120 125
Asn Phe Tyr Ser Cys Val Leu Leu Ile Met Cys Ile Ser Val Asp Arg
130 135 140
Tyr Ile Ala Ile Ala Gln Ala Met Arg Ala His Thr Trp Arg Glu Lys
145 150 155 160
Arg Leu Leu Tyr Ser Lys Met Val Cys Phe Thr Ile Trp Val Leu Ala
165 170 175
Ala Ala Leu Cys Ile Pro Glu Ile Leu Tyr Ser Gln Ile Lys Glu Glu
180 185 190
Ser Gly Ile Ala Ile Cys Thr Met Val Tyr Pro Ser Asp Glu Ser Thr
195 200 205
Lys Leu Lys Ser Ala Val Leu Thr Leu Lys Val Ile Leu Gly Phe Phe
210 215 220
Leu Pro Phe Val Val Met Ala Cys Cys Tyr Thr Ile Ile Ile His Thr
225 230 235 240
Leu Ile Gln Ala Lys Lys Ser Ser Lys His Lys Ala Leu Lys Val Thr
245 250 255
Ile Thr Val Leu Thr Val Phe Val Leu Ser Gln Phe Pro Tyr Asn Cys
260 265 270
Ile Leu Leu Val Gln Thr Ile Asp Ala Tyr Ala Met Phe Ile Ser Asn
275 280 285
Cys Ala Val Ser Thr Asn Ile Asp Ile Cys Phe Gln Val Thr Gln Thr
290 295 300
Ile Ala Phe Phe His Ser Cys Leu Asn Pro Val Leu Tyr Val Phe Val
305 310 315 320

Gly Glu Arg Phe Arg Arg Asp Leu Val Lys Thr Leu Lys Asn Leu Gly
 325 330 335
 Cys Ile Ser Gln Ala Gln Trp Val Ser Phe Thr Arg Arg Glu Gly Ser
 340 345 350
 Leu Lys Leu Ser Ser Met Leu Leu Glu Thr Thr Ser Gly Ala Leu Ser
 355 360 365
 Leu

<210> 7
 <211> 378
 <212> PRT
 <213> Homo sapiens

<220>
 <223> chemokine receptor CCR7

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 20 25 30
 Ile Gly Asp Asn Thr Thr Val Asp Tyr Thr Leu Phe Glu Ser Leu Cys
 35 40 45
 Ser Lys Lys Asp Val Arg Asn Phe Lys Ala Trp Phe Leu Pro Ile Met
 50 55 60
 Tyr Ser Ile Ile Cys Phe Val Gly Leu Leu Gly Asn Gly Leu Val Val
 65 70 75 80
 Leu Thr Tyr Ile Tyr Phe Lys Arg Leu Lys Thr Met Thr Asp Thr Tyr
 85 90 95
 Leu Leu Asn Leu Ala Val Ala Asp Ile Leu Phe Leu Leu Thr Leu Pro
 100 105 110
 Phe Trp Ala Tyr Ser Ala Ala Lys Ser Trp Val Phe Gly Val His Phe
 115 120 125
 Cys Lys Leu Ile Phe Ala Ile Tyr Lys Met Ser Phe Phe Ser Gly Met
 130 135 140
 Leu Leu Leu Leu Cys Ile Ser Ile Asp Arg Tyr Val Ala Ile Val Gln
 145 150 155 160
 Ala Val Ser Ala His Arg His Arg Ala Arg Val Leu Leu Ile Ser Lys
 165 170 175
 Leu Ser Cys Val Gly Ser Ala Ile Leu Ala Thr Val Leu Ser Ile Pro
 180 185 190
 Glu Leu Leu Tyr Ser Asp Leu Gln Arg Ser Ser Ser Glu Gln Ala Met
 195 200 205
 Arg Cys Ser Leu Ile Thr Glu His Val Glu Ala Phe Ile Thr Ile Gln
 210 215 220
 Val Ala Gln Met Val Ile Gly Phe Leu Val Pro Leu Leu Ala Met Ser
 225 230 235 240
 Phe Cys Tyr Leu Val Ile Ile Arg Thr Leu Leu Gln Ala Arg Asn Phe
 245 250 255
 Glu Arg Asn Lys Ala Ile Lys Val Ile Ile Ala Val Val Val Val Phe
 260 265 270
 Ile Val Phe Gln Leu Pro Tyr Asn Gly Val Val Leu Ala Gln Thr Val
 275 280 285
 Ala Asn Phe Asn Ile Thr Ser Ser Thr Cys Glu Leu Ser Lys Gln Leu
 290 295 300
 Asn Ile Ala Tyr Asp Val Thr Tyr Ser Leu Ala Cys Val Arg Cys Cys
 305 310 315 320
 Val Asn Pro Phe Leu Tyr Ala Phe Ile Gly Val Lys Phe Arg Asn Asp
 325 330 335

Ile Phe Lys Leu Phe Lys Asp Leu Gly Cys Leu Ser Gln Glu Gln Leu
 340 345 350
 Arg Gln Trp Ser Ser Cys Arg His Ile Arg Arg Ser Ser Met Ser Val
 355 360 365
 Glu Ala Glu Thr Thr Thr Thr Phe Ser Pro
 370 375

<210> 8
 <211> 374
 <212> PRT
 <213> Homo sapiens

<220>
 <223> chemokine receptor CCR6

<400> 8
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 Asp Tyr Phe Val Ser Val Asn Thr Ser Tyr Tyr Ser Val Asp Ser Glu
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 Met Leu Leu Cys Ser Leu Gln Glu Val Arg Gln Phe Ser Arg Leu Phe
 35 40 45
 Val Pro Ile Ala Tyr Ser Leu Ile Cys Val Phe Gly Leu Leu Gly Asn
 50 55 60
 Ile Leu Val Val Ile Thr Phe Ala Phe Tyr Lys Lys Ala Arg Ser Met
 65 70 75 80
 Thr Asp Val Tyr Leu Leu Asn Met Ala Ile Ala Asp Ile Leu Phe Val
 85 90 95
 Leu Thr Leu Pro Phe Trp Ala Val Ser His Ala Thr Gly Ala Trp Val
 100 105 110
 Phe Ser Asn Ala Thr Cys Lys Leu Leu Lys Gly Ile Tyr Ala Ile Asn
 115 120 125
 Phe Asn Cys Gly Met Leu Leu Leu Thr Cys Ile Ser Met Asp Arg Tyr
 130 135 140
 Ile Ala Ile Val Gln Ala Thr Lys Ser Phe Arg Leu Arg Ser Arg Thr
 145 150 155 160
 Leu Pro Arg Thr Lys Ile Ile Cys Leu Val Val Trp Gly Leu Ser Val
 165 170 175
 Ile Ile Ser Ser Thr Phe Val Phe Asn Gln Lys Tyr Asn Thr Gln
 180 185 190
 Gly Ser Asp Val Cys Glu Pro Lys Tyr Gln Thr Val Ser Glu Pro Ile
 195 200 205
 Arg Trp Lys Leu Leu Met Leu Gly Leu Glu Leu Leu Phe Gly Phe Phe
 210 215 220
 Ile Pro Leu Met Phe Met Ile Phe Cys Tyr Thr Phe Ile Val Lys Thr
 225 230 235 240
 Leu Val Gln Ala Gln Asn Ser Lys Arg His Lys Ala Ile Arg Val Ile
 245 250 255
 Ile Ala Val Val Leu Val Phe Leu Ala Cys Gln Ile Pro His Asn Met
 260 265 270
 Val Leu Leu Val Thr Ala Ala Asn Leu Gly Lys Met Asn Arg Ser Cys
 275 280 285
 Gln Ser Glu Lys Leu Ile Gly Tyr Thr Lys Thr Val Thr Glu Val Leu
 290 295 300
 Ala Phe Leu His Cys Cys Leu Asn Pro Val Leu Tyr Ala Phe Ile Gly
 305 310 315 320
 Gln Lys Phe Arg Asn Tyr Phe Leu Lys Ile Leu Lys Asp Leu Trp Cys
 325 330 335
 Val Arg Arg Lys Tyr Lys Ser Ser Gly Phe Ser Cys Ala Gly Arg Tyr
 340 345 350

Ser Glu Asn Ile Ser Arg Gln Thr Ser Glu Thr Ala Asp Asn Asp Asn
 355 360 365
 Ala Ser Ser Phe Thr Met
 370

<210> 9
 <211> 342
 <212> PRT
 <213> Homo sapiens

<220>
 <223> chemokine receptor STRL33

<400> 9
 Met Ala Glu His Asp Tyr His Glu Asp Tyr Gly Phe Ser Ser Phe Asn
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 Asp Ser Ser Gln Glu Glu His Gln Asp Phe Leu Gln Phe Ser Lys Val
 20 25 30
 Phe Leu Pro Cys Met Tyr Leu Val Phe Val Cys Gly Leu Val Gly
 35 40 45
 Asn Ser Leu Val Leu Val Ile Ser Ile Phe Tyr His Lys Leu Gln Ser
 50 55 60
 Leu Thr Asp Val Phe Leu Val Asn Leu Pro Leu Ala Asp Leu Val Phe
 65 70 75 80
 Val Cys Thr Leu Pro Phe Trp Ala Tyr Ala Gly Ile His Glu Trp Val
 85 90 95
 Phe Gly Gln Val Met Cys Lys Ser Leu Gly Ile Tyr Thr Ile Asn
 100 105 110
 Phe Tyr Thr Ser Met Leu Ile Leu Thr Cys Ile Thr Val Asp Arg Phe
 115 120 125
 Ile Val Val Val Lys Ala Thr Lys Ala Tyr Asn Gln Gln Ala Lys Arg
 130 135 140
 Met Thr Trp Gly Lys Val Thr Ser Leu Leu Ile Trp Val Ile Ser Leu
 145 150 155 160
 Leu Val Ser Leu Pro Gln Ile Ile Tyr Gly Asn Val Phe Asn Leu Asp
 165 170 175
 Lys Leu Ile Cys Gly Tyr His Asp Glu Ala Ile Ser Thr Val Val Leu
 180 185 190
 Ala Thr Gln Met Thr Leu Gly Phe Phe Leu Pro Leu Leu Thr Met Ile
 195 200 205
 Val Cys Tyr Ser Val Ile Ile Lys Thr Leu Leu His Ala Gly Gly Phe
 210 215 220
 Gln Lys His Arg Ser Leu Lys Ile Ile Phe Leu Val Met Ala Val Phe
 225 230 235 240
 Leu Leu Thr Gln Met Pro Phe Asn Leu Met Lys Phe Ile Arg Ser Thr
 245 250 255
 His Trp Glu Tyr Tyr Ala Met Thr Ser Phe His Tyr Thr Ile Met Val
 260 265 270
 Thr Glu Ala Ile Ala Tyr Leu Arg Ala Cys Leu Asn Pro Val Leu Tyr
 275 280 285
 Ala Phe Val Ser Leu Lys Phe Arg Lys Asn Phe Trp Lys Leu Val Lys
 290 295 300
 Asp Ile Gly Cys Leu Pro Tyr Leu Gly Val Ser His Gln Trp Lys Ser
 305 310 315 320
 Ser Glu Asp Asn Ser Lys Thr Phe Ser Ala Ser His Asn Val Glu Ala
 325 330 335
 Thr Ser Met Phe Gln Leu
 340

<210> 10
<211> 740
<212> DNA
<213> Homo sapiens

<220>
<223> DNA sequence 5' to the translation start site
of the CCX CKR gene

<400> 10
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tatttaactt atttaaatta aatttataaa taacatcaaa ataaaaaata aatttaattt 120
aaataaacca agtaatttgc tattttcgtt tttattcaat ttgtttaga tatactttta 180
cgattcacaa aattatgtat gtaaagatta taacactatt tattcttttt agttaaaatc 240
taattaaatt ttcataatttt aaaaatcatt tttacataaa agtccttact tttatttagg 300
atttaaatgat taagaaaatt ctccagggca ttatgtttat tgtcctgttc aaatccaagc 360
tctttcacac agaattgtac aagcaaagtt tgagtaacta atcttggggg catattccaa 420
tgtggctccc attaaagcat ttcaaagagt gctagattca ggctcacata tgttacagca 480
acaggctata ctctagggaa agaacaaaac agcttgatag aaactgtgtg cttttaagca 540
tatttagaca aatatctatc ctgtattctc tttgccatct agattggagc catggctttg 600
gaacagaacc gtcaacagat tattattatg aggagaagtg aaatgaatgg cctgatgact 660
acagtcagta tgaactgac tgttcagaga agagacagag gatatgcaca gggttgctcc 720
ctgtattgct caccatagag 740

<210> 11
<211> 347
<212> DNA
<213> Homo sapiens

<220>
<223> positions 1-347 of CXK CKR

<400> 11
atggcttttg aacagaacca gtcaacagat tattattatg aggaaaatga aatgaatggc 60
acttatgact acagtcaata tgaactgac tgtatcaaag aagatgtcag agaatttgca 120
aaagttttcc tccctgtatt cctcacaata gttttogtca ttggacttgc aggcaattcc 180
atggtagtgg caatttatgc ctattacaag aaacagagaa ccaaaacaga tgtgtacatc 240
ctgaatttgg ctgtagcaga tttactcctt ctattcactc tgcctttttg ggctgttaat 300
gcagttcatg ggtgggtttt agggaaaata atgtgcacaaa taacttc 347

<210> 12
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: peptide
translation of non-coding region of SEQ ID NO:1

<400> 12
Asn Cys Ser Ala Phe Cys Leu Asp Thr Tyr Glu
1 5 10

<210> 13
<211> 5
<212> PRT
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide
translation of non-coding region of SEQ ID NO:1

<400> 13

Cys Phe Pro Leu Lys
1 5

<210> 14

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:peptide
translation of non-coding region of SEQ ID NO:1

<400> 14

Asn Ile Cys Leu Ile Leu Lys Lys Lys Lys Lys
1 5 10